

WHAT IS CLAIMED IS:

1. A caster brake system comprising:

a connection unit having a connection plate on a top thereof and a tubular member connected to an underside of the connection plate, an upper cam rotatably received in the tubular member and having a serrated underside which includes first protrusions, a lower cam movably received in the tubular member and having a serrated top which has second protrusions, the lower cam being moved downward when a peak of each of the first protrusions contacts a peak of the second protrusion corresponding thereto, a disk connected to an underside of the lower cam and having teeth on an outer periphery thereof;

a frame unit having a frame having an open top so as to receive the lower cam therein and a hole defined through a bottom of the frame, a plurality of notches defined in an inner periphery of the hole so as to match with the teeth of the disk when the disk is moved toward the hole, two plates connected to an underside of the frame and wheel support arms extending from the two plates;

a braking unit having a pushing member pivotably located between the two plates and a first end of the pushing member being pushed by the underside of the lower cam, a braking member pivotably mounted to the two plates and a first end of the braking member being pushed by a second end of the pushing member, and

a wheel unit connected to the wheel support arms and having an annular shoulder surface, a second end of the braking member contacting the

shoulder surface when the first end of the braking member is pushed by the second end of the pushing member.

2. The system as claimed in Claim 1, wherein the tubular member includes two first slots and a sleeve is received in the tubular member and has two second slots which are located in alignment with the first slots, a boss extending from an end of the tubular member and the sleeve having a flange which has a recess, the boss engaged with the recess, the upper cam having a passage defined in a top surface thereof and an operation bar extending through the first slots, the second slots and the passage of the upper cam such that the upper cam is rotated by operating the operation bar.
3. The system as claimed in Claim 2, wherein a polygonal member extends from the underside of the lower cam and the disk has a polygonal hole through which the polygonal member extends, a spring located between the underside of the lower cam and the disk, a bearing engaged with the open top of the frame and the tubular member received in a central hole of the bearing.
4. The system as claimed in Claim 3 further comprising a first C-shaped clip which fixes an end of the spring to the lower cam, and a second C-shaped clip which positions the bearing in the frame.
5. The system as claimed in Claim 1, wherein the pushing member includes a pivot hole and a pin extends through the pivot hole and the plates.
6. The system as claimed in Claim 1, wherein each plate has a lug and the braking member is a U-shaped member having two legs located on an outside of the two lugs, a pin extending through holes in the two legs of the braking member and holes in the two lugs.

7. The system as claimed in Claim 1 further comprising a cushion member located between the two plates and having two through holes such that pins extend through holes in the two plates and the through holes in the cushion member, the two wheel support arms each having a first end thereof connected to the cushion member at a center of the cushion member, an axle extending through holes in the two wheel support arms and a central hole in the center of the cushion member, the wheel unit connected to two respective second ends of the wheel support arms.
8. The system as claimed in Claim 1, wherein the wheel unit includes a first part and a second part, both of which are respectively connected to the wheel support bars by extending a shaft through a central hole in each of the first part and the second part, the shaft having an enlarged end at a first end thereof and being stopped on an outside of the first part, a threaded hole defined in a second end of the shaft and a screw being engaged with the threaded hole from an outside of the second part.
9. The system as claimed in Claim 8, wherein each of the first part and the second part includes snap holes, two caps respectively mounted to the first part and the second part by inserting tongue members on an inside of the caps through the snap holes of the first part and the second part.
10. The system as claimed in Claim 5, wherein the pin has a groove defined in an end thereof, which extends through the two plates, a C-shaped clip engaged with the groove.
11. The system as claimed in Claim 6, wherein the pin has a groove defined in an end thereof, which extends through the two lugs, a C-shaped clip engaged with the groove.

12. The system as claimed in Claim 8, wherein a first bush is located between the two wheel support arms and two second bushes are respectively located between the two wheel support arms and the first part and the second part.